



MNC-H200 USER'S MANUAL

Full HD Wi-Fi Network Camera



Thank you for purchasing this product.

- **MCN** **Mate** is the trademark of MCNEX Co. Ltd.
- The model and services of this product are the trademarks of the owner.
- MCNEX Co. Ltd. owns the copyright of this document.
- Copying, distributing, reproducing or modifying any part of this document is prohibited without an official approval of MCNEX Co. Ltd.
- Before using this product, please register the product number attached on the back of the product warranty of this manual as well as on the product for the best customer support and after services. On the website, (If not registered, it requires the purchase receipt for seamless A/S.)

Important Notes

- This manual has been produced as of today/the present (by current standards). Best efforts were put for completeness and accuracy. However, there may be editorial errors or omissions, and there is no guarantee for this. The responsibility for using this document entirely depends on the user.
- Any change(s) in the product specifications or manual for improvement in the product performance may take place without notice.
- The images in this manual may look a little differently depending on the printer or a change in specifications.
- We do not take any responsibility for loss or radio/TV interference caused by the user's misusage or remodeling of the camera out of its original purpose. Please be aware that you may be legally punished by 'the Private Act and related statutes' if you intentionally record others.
- This device as a home appliance (B grade), Electromagnetic compatibility device is mainly suitable for use in the home and can be used in all areas. The radio/wireless equipment may cause a mixed radio signal so cannot provide services related with life-saving.

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01

Warnings and Cautions

The following precautions are to prevent unexpected risks or damage by using the product safe and correct / correct use / the product.

The precautions are divided into two types, “Warning” and “Caution” , meaning as follows:



This graphic symbol is a symbol for attention on the operations and items that might cause a hazard. So, please read and follow the instructions carefully to prevent any risk. If you do not follow the instructions, the user takes all the responsibility.

| | | |
|---|----------------|---|
|  | Warning | If this sign is violated, it may cause a serious injury or death. |
|  | Caution | If this sign is violated, it may cause a minor injury or damage to the product. |

1. Warnings for Safety



- Before using the product, please read the instructions thoroughly, and follow the operating guidelines and warnings enclosed and indicated with this manual.
- Do not touch the power cable with wet hands when plugging or unplugging. It can cause an electric shock.
- Plug the power cable all the way in so that it's not wobble, and do not use a damaged cable which can cause a fire/electric shock.
- Use the supplied power adapter only. Use of an unauthorized adapter may cause a damage to the product. The power adapter must be used for home-rated power.
- Install the product and power cable out of reach of children, and Place them away from infant beds or any other children's furniture. Install the power cable especially out of children's reach.
- This product has been designed for indoor use, not for medical purposes, and requires supervision of an adult.
- Install the product in a well-ventilated place.
- Do not touch any uninsulated, exposed part of the power adapter when plugging or unplugging.
- Do not place the product or power cable near any heat sources.
- Do not leave any sharp objects near the adapter cable to prevent cable damage.
- This product is not intended to replace human supervisory ability of children.
- This product does not have a function of immediately notifying adults of any unexpected and sudden movements of children, so it requires a regular inspection and supervision management by staff.
- Because this product as a Wi-Fi and Network product is used with transceivers of the antenna, keep the distance of longer than 20 cm between the antenna of the product and the user to satisfy the RF exposure specifications.
- Do not operate the product with wet hands. This may cause an electric shock or product malfunction.



- Use genuine McNMate products and parts only. Using a non-genuine product or part can cause a product damage.
- Make sure the Micro SD card turned off before inserting or taking it out.
- If the storage space in the Micro SD card is full, the oldest video is automatically deleted. Therefore, keep important recording files on a separate storage device.
- When changing the mounting position of the product, the camera angle can be changed, so check the images after mounting the camera and adjusting its angle. If it is attached to the wrong location, normal recording may not be done.
- Keep the front of the lens clean.
- The best temperature for its functioning is between $-20 \sim +55^{\circ}\text{C}$. Keep this temperature to prevent any problem especially in hot summer or cold winter.
- Do not use the product in a place with high temperature or humidity.
- Please contact the customer service immediately if you suspect a problem with the product or its function. Otherwise, the symptoms may get worse, and you may not be able to get normal customer support.
- This product record images using a camera, so the quality may depredate depending on the conditions. The degradation of image quality may be caused by a large difference in the shades of the object, severe backlight during daytime and in the middle of the night.
- Do not clean the product with chemicals or detergents. Please wipe it gently with a soft cloth to prevent any color change of the product case.
- Keep the product and cables from dust. Dusk can cause the product malfunction or error.

02

Features

■ Clear Video Recording

Sony Exmor sensor provides clear images.

■ High Definition Video Recording

FHD (1920x1080) provides high-quality images of 30 fps.

■ Remote Monitoring

Wherever the Internet connection is available, remote monitoring is available on any smart phone device (Android, iOS) or PC.

■ Real-time Alarm

As motions and sounds are detected, real-time alarming is sent to your smartphone.

■ Two-way Audio

A built-in microphones and speaker enable communication in both directions.

■ SD Card Storage

When an event occurs, the real-time images can be stored on the SD card inserted in the product.

■ IR LED

IR LED can be used to enable monitoring objects in low light.

■ Easy Installation

The product can be installed without any additional setup program at the website www.smartiview.com, and the images can be monitored through the Web viewer.

03

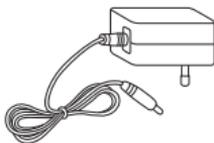
Parts of Product

- Make sure the components as shown in the pictures below are all included.
(Contact your dealer if something is missing.)
- The components of this product are subject to change without notice for improvement of product performance or quality.
- Please download the manual and VMS program from www.mcnmate.com.

Components



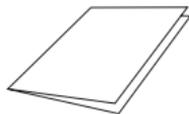
Main body



Adapter



Network cables



Quick Guide



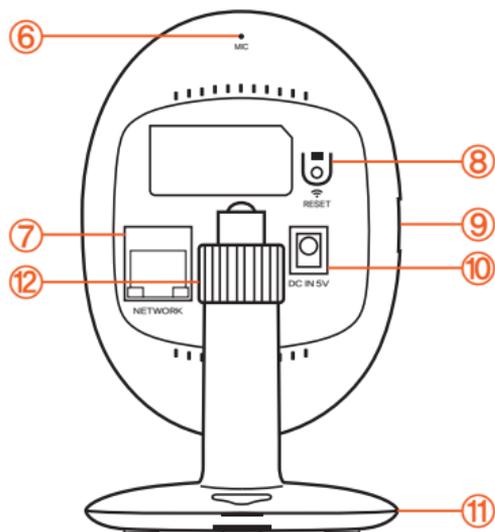
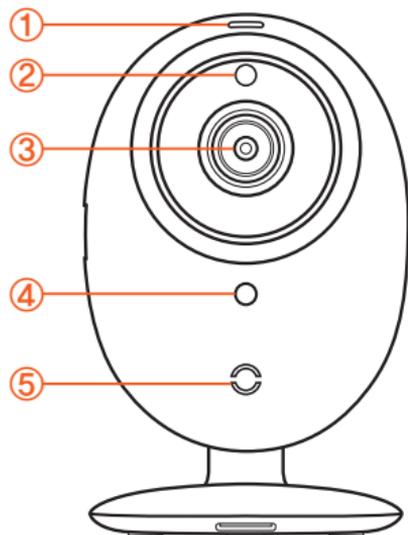
Tapping screws



Plastic anchors

2. Names and Functions

■ Main body



■ Main body

| | |
|------------------------------|--|
| ① Power / Network status LED | Indicates the operating (power / network) status of the product. |
| ② Ambient light sensor | Switches to night-vision mode depending on the brightness detected around the camera. |
| ③ Camera lens | Record the front |
| ④ High-intensive IR LED | Built-in IR LED for night time |
| ⑤ Speaker | Outputs the audio transmitted from outside using the built-in speaker. |
| ⑥ Microphone | Inputs audio using the built-in microphone. |
| ⑦ Network connection port | Used for wired network connection (PoE power available) |
| ⑧ WPS / Reset button | 1 second: pairing the camera with a wireless router 10 seconds: reset to the factory condition of the camera settings |
| ⑨ Micro SD card slot | Insert / take out the Micro SD card (note the insertion direction) |
| ⑩ Power connection port | Power cable port |
| ⑪ Mounting bracket | Used for desk, wall or ceiling installation |
| ⑫ Angle-adjustment nut | Fix the recording position after loosening the screws and securing / tightening direction. |

04

Installation

1. Wall-mounting with screws

■ Remove

Holding the hook **A** on the back of the bracket body, open the gap **B** below it to separate the bracket body and mount.



■ Assembly

After aligning it to the right direction, first set the hole on the opposite of the arrow on the bracket mount with the hook on the bracket body, and then push to complete the assembly.



■ Installation

- 1) Get the screw (M3 x 20) and the anchor (\varnothing 5 x 25) ready.
- 2) If the wall is wooden, place the arrow toward 12 o' clock of the bracket mount on the wall, chose one of the four holes and fix the screws into the two holes (in diagonal direction) with a screwdriver.



1. Product Installation

- 3) If the wall is concrete, first place the bracket mount with the arrow pointing at 12 o' clock and mark two (in diagonal) of the four holes as shown in the illustration.

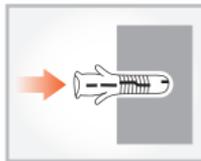


- 4) Drill with a 6 mm concrete bit into the depth of about 3 cm. Remove the scrapings in the holes.



 Be careful of an injury when drilling.

- 5) Insert the anchors in the two holes and hit them lightly with a rubber hammer to insert them to the wall.



 When the installation is complete, remove the protective plastic on the lens.

- 6) Fix the screws into two holes with a screwdriver.

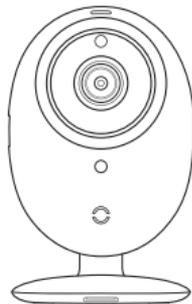


2. How to insert / remove Micro SD card



Cautions in the use of the Micro SD card

- It is recommended to regularly inspect or replace the Micro SD card (formatting it every fortnightly recommended).
- When removing the card from the product, make sure the power is turned off. If you remove the card with the power on, it may cause an error or failure.
- Inserting the card too hard or in the other direction may cause a damage to the card.
- The capacity of the Micro SD card is up to 32G.



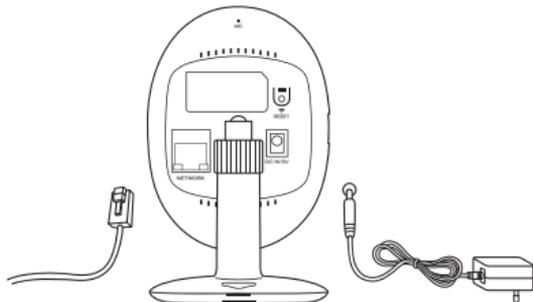
3. Power connection

- Plug the power adapter into a wall outlet and connect the camera with the power and network cables as shown in the picture.
 - Use the supplied power adapter only. Using an adapter other than specified may result in the malfunction of the product.
 - It takes about 1 minute for the camera to completely turned on.
 - Once the camera is completely on, the red light flashes and then stays on.

4. Network connection

- Connect the network cable with the network connector on the camera as shown.

| | |
|-----------------------|--|
| Red | Loading |
| Flashing red(500ms) | Loading complete/Network not connected |
| Green | Network connected/Normal operation |
| Flashing green(200ms) | WPS on |
| Purple(red+green) | Upgrading firmware |



2. Network Connection

5. Network connection and settings



Cautions

- The wireless network connection may fail depending on the communication conditions, and network delay or interruption may occur depending on the network conditions.
- The farther it is from the wireless router, the longer the connection takes.
- Do not access to unauthorized network. Services may not be provided for certain Internet services that require user authentication. In this case, contact your service provider.
- Contact your network administrator or service provider for network settings and password in more detail.
- Refer to the router manual or contact the router manufacturer for router or wireless connection in more detail.
- Some routers may have a compatibility problem.
- If the camera is installed on a network environment with multiple wireless connections, some image packets may be lost according to the network traffic load.

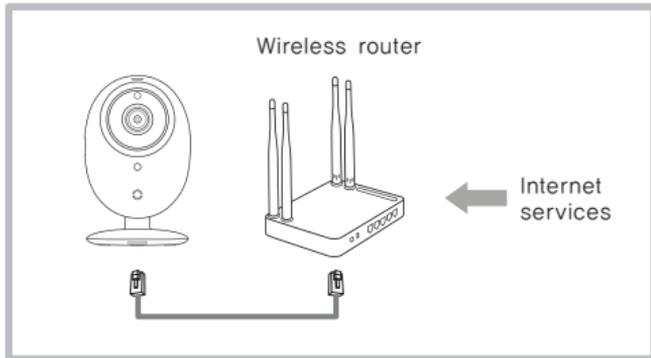
1) Network Cable Connection

If you do not have a wireless router, the camera can be connected directly to the router using a network cable.

- ① When the power is connected, the red light comes on; when it's complete, the green light flashes.
- ② Connect the camera and the router with a network cable.
- ③ When the network is properly connected, the green on the LED status indicator stops flashing. If not, repeat from step ②.



Using the router set to DHCP (Dynamic Host Configuration Protocol) server recommended.

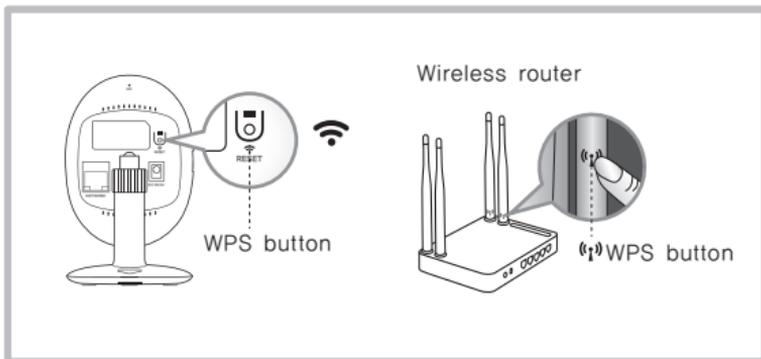


2) WPS Connection

Using the WPS function with a single push of a button, you can connect the camera to your wireless router.

- ① When the power is connected, the red light comes on; when it's complete, the green light flashes.
- ② Press the WPS button on back of the camera and hold it for one second. Then, press the WPS button on the wireless router within two minutes.
- ③ When the network is properly connected, the green on the LED status indicator stops flashing. If not, repeat from step ②.

 Available only with a wireless router that supports WPS.

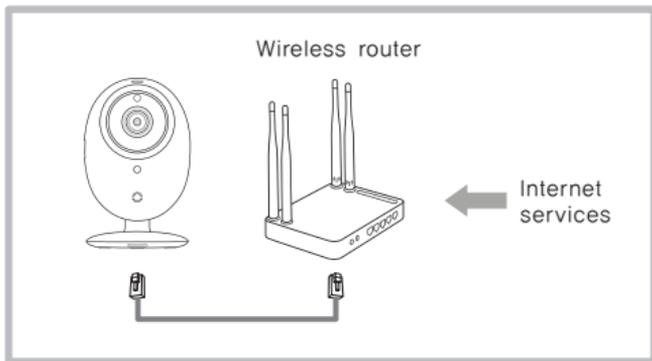


2. Network Connection

3) Wi-Fi Connection without WPS

To connect to a wireless router without WPS, change the network settings to 'wired' and try wireless network.

- ① When the power is connected, the red light comes on; when it's complete, the red light flashes.
- ② Connect the camera and the router with a network cable.
- ③ Register and select the camera as described in the Web Monitoring Site on page 21.
- ④ Set up the wireless network as described in the Wireless Network Settings on page 29. When the network is properly connected, the green on the LED status indicator turns on.
- ⑤ When the wireless network setting is completed, remove the network cable.



05

Viewer Monitoring

1. Camera Registration

If you register the product on the website, you can monitor the video on your PC.

1. Web Browser Requirements

- Supports Windows 7 and 8
 - Internet Explorer 9 or later

2. Starting

- 1) Launch a web browser on your PC.
- 2) Access to www.smartiview.com.
- 3) Select your language.
- 4) Only for the first time, click on “Start Smartiview” to sign up and register your camera. And then, log in with your ID and password and enter the Web Viewer.

The screenshot shows the Smartiview website's registration page. At the top, the 'ME nMATE' logo is on the left, and navigation links for 'Log in | Product Info | Customer service | Korean' are on the right. The main content area features a large image of two Smartiview cameras (one black, one white) and a smartphone displaying a live video feed. Text on the left includes 'iOS / Android / Real-time Web Monitoring', 'Two-way talk with family', and 'Clear images even at night time!!'. Below this is a 'Download Viewer' section with links for 'Android' and 'iOS' and QR codes. On the right, there is a login form with fields for 'ID' and 'PASSWORD', a 'LOG IN' button, and a 'Remember ID' checkbox. Below the login form is a 'Start Smartiview' section with a 'Start' button. At the bottom, the 'mcNEX' logo is on the left, and contact information for the company is on the right.

ME nMATE Log in | Product Info | Customer service | Korean ▼

iOS / Android / Real-time Web Monitoring
Two-way talk with family
Clear images even at night time!!

Download Viewer
Android [icon] [QR code]
iOS [icon] [QR code]

Go to Smartiview
ID [input]
PASSWORD [input] LOG IN
 Remember ID
Forgot ID / PASSWORD [icon]

Start Smartiview
Start ▶

You can sign up and register your camera at once.

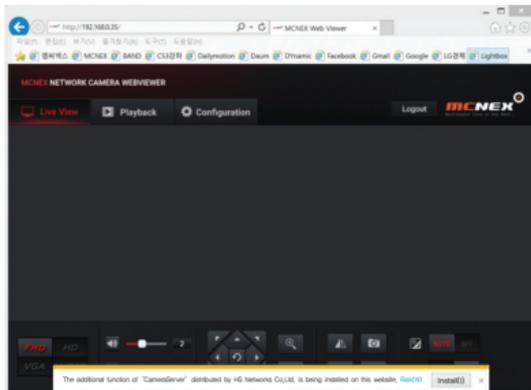
mcNEX
Hanshin IT Tower 2 (5F : 8F, 10F : 12F), 47, Digital-ro 9-gil, Geumcheon-gu, Seoul, Korea
TEL : 02-2025-3600 | FAX : 02-2025-3610

■ Install ActiveX

You have to install this program to search for your network-connected camera and view its images.



- If you log in on a PC without this program installed or click on “Start Smartview,” an installation window pops up.



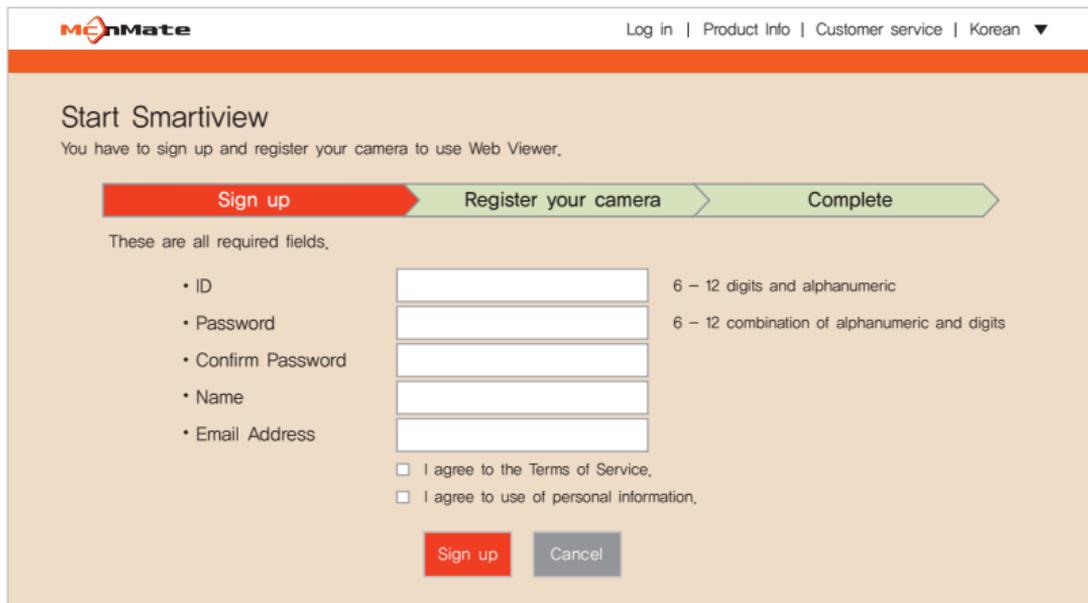
① Click Install.



② Click Install.

1. Camera Registration

5) Enter the required information and click on "Sign up."



MenMate Log in | Product Info | Customer service | Korean ▼

Start Smartview

You have to sign up and register your camera to use Web Viewer.

Sign up → Register your camera → Complete

These are all required fields,

- ID 6 - 12 digits and alphanumeric
- Password 6 - 12 combination of alphanumeric and digits
- Confirm Password
- Name
- Email Address

I agree to the Terms of Service.
 I agree to use of personal information.



- Use letters, numbers and special characters in your ID and password for security.
- Restricted passwords – same as ID, three or more consecutive characters or numbers (e.g. 123 and abc) and three or more same characters, numbers or special characters (e.g. 111, aaa and \$\$\$)
- Enter your password exactly since your email address will be used when you forget your ID or password.

6) Connect the camera to the power and the network cable. If the status indicator turns green, click "Next."

Log in | Product Info | Customer service | Korean ▼

Start Smartview

You have to sign up and register your camera to use Web Viewer.

Sign up → **Register your camera** → Complete

Check the camera power adapter and network cable and then connect them as shown below.



Connect the power adapter to the camera power socket.
Flashing Red → Red
(takes about 40 seconds)



Connect the network cable to the camera and router.



The LED indicator lamp turns green
(takes about 10 seconds)

Next

1. Camera Registration

- 7) Select the product serial number (S/N) from the search list of cameras.
If the camera is not detected, enter its S/N in the field.
- 8) Click on "Next."

Log in | Product Info | Customer service | Korean ▼

Start Smartiview

You have to sign up and register your camera to use Web Viewer.

Sign up → **Register your camera** → Complete

Check the serial number in the list of cameras and select the camera to be registered.
The camera is automatically searched if the camera and PC are connected on the same network.

🔄 A list of cameras found

S21AA00001T

Serial Number

Enter the product S/N here if the camera is not detected.

Network Camera
MODEL : MNC-H200
MCNEX CO.,LTD.
MADE IN KOREA
DCSV: 1.5A, PoE, DC44-57V Class2 IEEE802.3af
MAC ADDRESS : XX-XX-XX-XX-XX-XX

Sep. 2014 S/N : S21AA00001T

The S/N is on the back of the product.

Previous **Next**

1. Camera Registration

- 9) Create a name and password for your camera.
- 10) Click on "Next,"

McNMate Log in | Product Info | Customer service | Korean ▼

Start Smartview

You have to sign up and register your camera to use Web Viewer.

Sign up **Register your camera** Complete

Enter the camera name and password for camera security.

- Camera Name E.g. Lounge
- Camera Password A combination of 3-8 alphabetic, alphanumeric and digits.
- Confirm Password

Previous Next

1. Camera Registration

- 11) When the registration is complete, and a wireless network pop-up window appears, click "Yes."
If you click "No," wired network monitoring is possible. Go to step "14)."
Wireless network setting can be done in the Web Viewer setting.

The screenshot shows the MCHMate web interface for camera registration. At the top, there is a navigation bar with the MCHMate logo on the left and links for "Log in", "Product Info", "Customer service", and "Korean" on the right. The main heading is "Start Smartiview" with a subtext "You have to sign up and register your camera to use Web Viewer." Below this is a progress bar with three stages: "Sign up" (green), "Register your camera" (red, currently active), and "Complete" (green). The "Register your camera" stage contains a form with the instruction "Enter the camera name and password for camera security." and three input fields: "Camera Name", "Camera Password", and "Confirm Password". A modal dialog box is centered on the screen, displaying the message: "Camera registration is now complete. Would you like to set the camera's wireless network?" with "Yes" and "No" buttons. At the bottom of the page, there are "Previous" and "Next" navigation buttons.

- 12) When the registration is complete, and a wireless network pop-up window appears, click "Yes."
If you click "No," wired network monitoring is possible.

McenMate Log in | Product Info | Customer service | Korean ▼

Start Smartview

You have to sign up and register your camera to use Web Viewer.

Sign up Register your camera Complete

Select your wireless network and enter the password of the router.

| 무선 네트워크 이름 (SSID) | 보안 | 연호 |
|-------------------|-----|----|
| iptime_wifi | WPA | 연호 |
| iptime24 | WPA | 연호 |
| iptime25 | WPA | 연호 |
| KELBU123 | WPA | 연호 |
| iptime3 | WPA | 연호 |

• AP Connected iptime12

• Password

Other Wi-Fi Network (Set a wireless network not in the list).

• Security Type Open WEP WPA WPA/WPA2 PSK

• Network SSID

• Password

Next



- If you do not see the wireless network to set up, select "Other Wi-Fi Network (Set a wireless network not in the list)" and enter the required fields.

1. Camera Registration

- 13) Remove the network cable from the router and camera.
- 14) When the "Complete" button is on, click it.

MCnMate Log in | Product Info | Customer service | Korean ▼

Start Smartview

You have to sign up and register your camera to use Web Viewer.

Sign up → Register your camera → **Complete**

When the network cable between the router and camera is removed and complete button activated, click "complete."

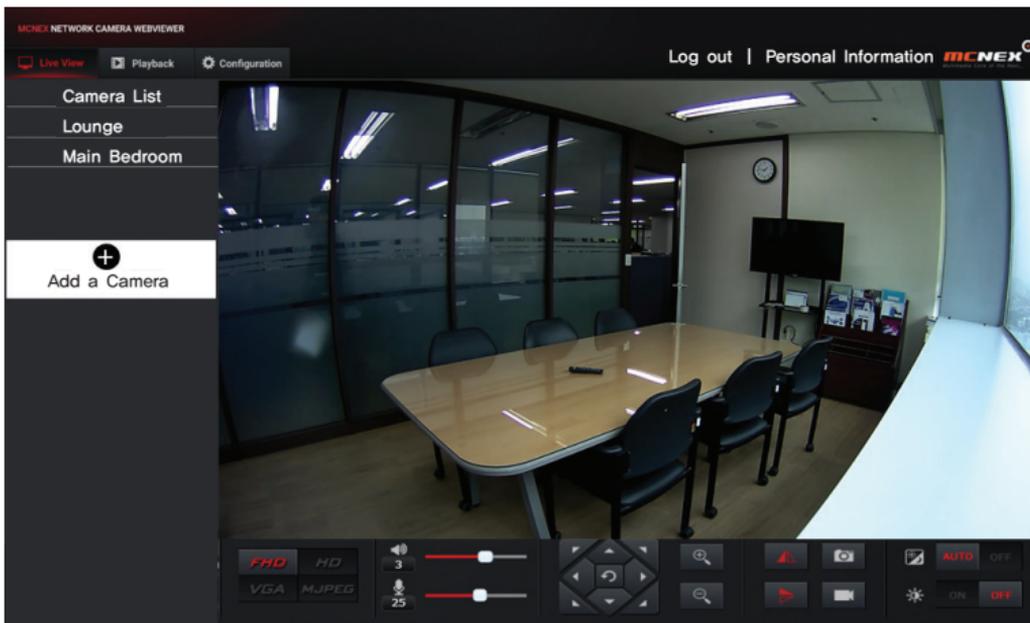


Removing the network cable from the camera.

Previous Next

1. Camera Registration

15) Upon successful registration, you see a screen that looks like this below, and you can check the camera in the list.



2. Live Video

1) Select the camera from the camera list on top-left.



■ Since any Inactivated camera in the list are not functioning, it can not be monitored.

2) Live video screen appears.

2. Live Video

The screenshot displays the MCNEX Network Camera Webviewer interface. At the top, there are navigation tabs for 'Live View', 'Playback', and 'Configuration'. The top right corner includes 'Log out | Personal Information' and the MCNEX logo. On the left, a 'Camera List' sidebar shows 'Lounge' and 'Main Bedroom', with an 'Add a Camera' button below. The main area shows a live video feed of a conference room. At the bottom, a control panel contains various settings and controls, each indicated by a numbered callout:

- 1: Camera List sidebar
- 2: Add a Camera button
- 3: Video resolution selection (FHD, HD, VGA, MJPEG)
- 4: Brightness slider
- 5: Contrast slider
- 6: Camera rotation controls (up, down, left, right, reset)
- 7: Zoom in button
- 8: Zoom out button
- 9: Snapshot button
- 10: Stop video button
- 11: Refresh button
- 12: Full screen button
- 13: AUTO OFF button
- 14: ON OFF button

2. Live Video

| Title | Description |
|---------------------|---|
| ① List of Cameras | You can see the live images, if you select a camera, |
| ② Add a Camera | You can add a camera, |
| ③ Adjust Speaker | You can adjust the volume of the built-in speaker of the camera, |
| ④ Adjust Microphone | You can adjust the volume of the built-in microphone of the camera, |
| ⑤ Speaker | You can turn on or off the audio of the viewer, |
| ⑥ Microphone | You can turn on or off the microphone, Microphone is used for two-way voice communication, |
| ⑦ Stream | You can select FHD / HD / VGA MJPEG stream, |
| ⑧ Navigation Key | The screen moves to the arrow direction if you click it, (This functions in Zoom In,) You can go back to the original screen by clicking "Back" in Zoom In / Zoom Out, Same when you place the cursor on the screen and move by holding the left button of the mouse, |
| ⑨ Zoom In | You can zoom in by clicking this, up to 10 times, |
| ⑩ Zoom Out | You can zoom out by clicking this, |
| ⑪ Mirror | You can change the image orientation from left to right or vice versa, |
| ⑫ Flip | You can change the image orientation from up to down or vice versa, |
| ⑬ Save Image | You can save the live images in a single image file, The saved location is My PC / My photos, |
| ⑭ Save Video | You can save the live images in a video file, The saved location is My PC / My Videos, |
| ⑮ Night Vision | If set to Auto, when it's dark, the images are automatically converted to black and white, and the IR lighting functions. If set to Off, it is not converted to Auto vision, so the images are still in colors, |
| ⑯ WDR | This is a function that makes a dark place brighter and a bright place dark, You can use this function when installed toward a gate or window, |

3. Playback

The screenshot shows the McNEX Playback interface. At the top, there are tabs for 'Live View', 'Playback', and 'Configuration'. The 'Playback' tab is active. On the right side of the top bar, there are links for 'Log out' and 'Personal Information' next to the McNEX logo.

On the left side, there is a calendar for the month of 2014, showing the 11th day. A red circle with the number 1 points to the calendar navigation arrows.

The main area displays a video feed of a conference room. A red circle with the number 5 points to the video feed. Below the video feed is a playback control bar. A red circle with the number 2 points to the play/pause button, a red circle with the number 3 points to the play button, a red circle with the number 4 points to the stop button, a red circle with the number 6 points to the seek bar, and a red circle with the number 7 points to the volume control. A red circle with the number 8 points to the recording status bar below the seek bar, which shows a timeline from 00 to 24 with various colored segments. A red circle with the number 9 points to the recording options: 'Continuous Recording' and 'Event Recording', both of which are checked.

3. Playback

| Title | Description |
|----------------|--|
| ① Date | Searches the data on the SD card by date. Dates with data are activated only. |
| ② Timeline | Shows the playback progress. |
| ③ Play / Pause | Plays or pauses the video. |
| ④ Stop | Stops the playback of the video. |
| ⑤ Skip File | Moves to the previous or next file. |
| ⑥ Skip Frame | Moves to the previous or next frame. |
| ⑦ Audio | Adjusts the audio volume of the current video. |
| ⑧ Type | Sets the event type to search in a specified period. |
| ⑨ Type Bar | Shows status by type of a specified search period. Blue: Continuous recording, Green: Event recording |

1. Basic Information

MCNEX NETWORK CAMERA WEBVIEWER

Live View Playback Configuration Log out | Personal Information **MCNEX**

> Basic Configuration

> Setting the Recording Schedule

> Time Settings

> Network

> Motion Zone/Alarm Settings

> Privacy Zone Settings

Basic Configuration

Serial Number S21AA00001T

Camera Password **Change**

Camera Name Lounge **Change**

Firmware Current Version XXXXXXXXXXXX
Version Latest Version XXXXXXXXXXXX

Installation environment

Scene Indoor **Apply**

SD card Management

SD Card Status Serviceable/All 3GB/16GB **Format**

Partition Settings Continuous recording first

Recording Quality Settings FHD HD VGA

If the SD card is full, the oldest video is automatically deleted.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

4. Configuration

1. Basic Information

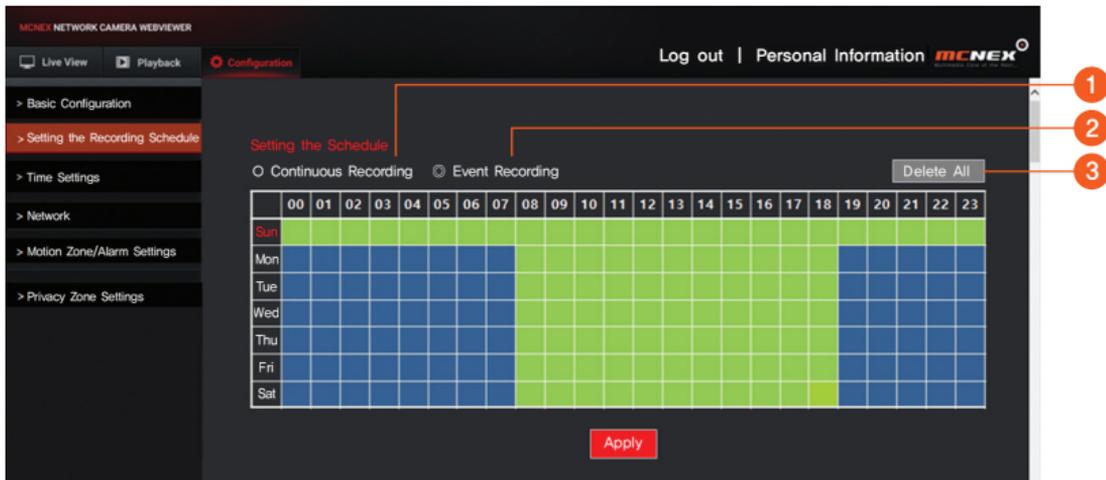
| Title | Description |
|------------------------------|--|
| ① Serial Number | Check the product serial number. |
| ② Camera Password | You can change the camera password by clicking "Change." Change the password by entering the existing password and a new combination of 3~8 alphanumeric and clicking "Apply." |
| ③ Camera Name | You can change the camera name by clicking "Change." Enter a new name and click "Apply." |
| ④ Firmware Version | You can check the current and recent version of the camera software. If the software needs a new version, the download icon is activated, and you can start updating by clicking this icon. |
| ⑤ SD Card Status | You can format the SD card. |
| ⑥ Partition Settings | You can set the capacity of the SD card by recording type. Priority of continuous recording: Continuous 70% and Event 30%. Priority of event recording: Continuous 50% and Event 50%. |
| ⑦ Recording Quality Settings | Set the quality of the images to be saved on the SD card. |
| ⑧ Type | Set the type of the event to be searched in the search period. |



- The camera reboots after the firmware update.
- Do not turn on the power while updating. Otherwise, it may not function properly.
- Wired network connection is recommended for the firmware update.
- The time of the firmware update depends on the file size and network connection.

2. Setting the Recording Schedule

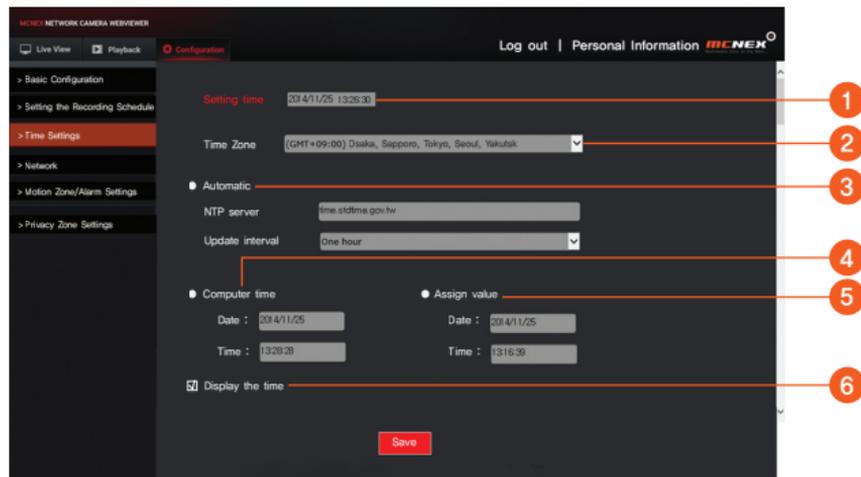
- Select the continuous recording or event recording and then select a time to record the time and set the alarm.



| Item | Description |
|------------------------|--|
| ① Continuous Recording | Records the images during the set time on the SD card. |
| ② Camera Password | Records the images of before and after 10 seconds before and after the accident. |
| ③ Delete All | Delete all of the selected. |

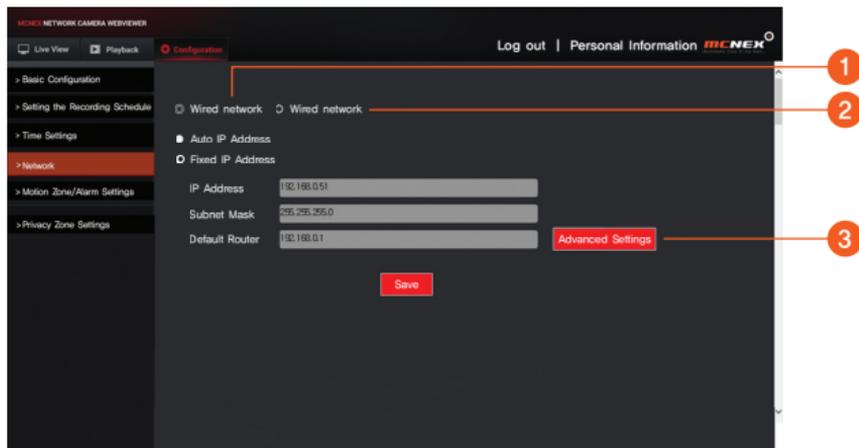
4. Configuration

3. Time Settings



| Title | Description |
|--------------------|---|
| ① Time Settings | Shows the set time of the camera. |
| ② Time Zone | Select a region. |
| ③ Auto | The server time is applied to you PC. |
| ④ Computer Time | The time of the PC using the monitoring is applied. |
| ⑤ User Settings | You can directly input the time. |
| ⑥ Display the time | Overlaid on the camera images. |

4. Network (Wired)



| Title | Description |
|---------------------|--|
| ① Auto IP Address | When selected, the IP address is assigned automatically. |
| ② Manual IP Address | You have to enter the IP address, subnet mask and gateway. |
| ③ Advanced Settings | Manual settings enables ideas on the manual IP address. |



- When the camera is connected to both the wired and wireless network, the wired network is prioritized.
- Connecting from wireless to the wired can convert it into the wired.
- If the manual settings are incorrect, the network settings are not applied.

4. Configuration

4. Network (Wired, Advanced Settings)

The screenshot shows the 'Configuration' page of the MCNEX Network Camera Webviewer. The 'Network' section is active, showing options for 'Wired network' (selected) and 'Wireless network'. The wired network settings include IP Address (192.168.0.51), Subnet Mask (255.255.255.0), Default Router (192.168.0.1), Primary DNS (168.126.63.1), and Secondary DNS. Below these are sections for 'HTTP' (Port 80) and 'RTSP Streaming' (Port 554). A 'Save' button is located at the bottom.

MCNEX NETWORK CAMERA WEBVIEWER

Live View Playback Configuration Log out | Personal Information MCNEX

> Basic Configuration

> Setting the Recording Schedule

> Time Settings

> Network

> Motion Zone/Alarm Settings

> Privacy Zone Settings

Wired network Wireless network

IP Address 192.168.0.51

Subnet Mask 255.255.255.0

Default Router 192.168.0.1

Primary DNS 168.126.63.1

Secondary DNS

HTTP

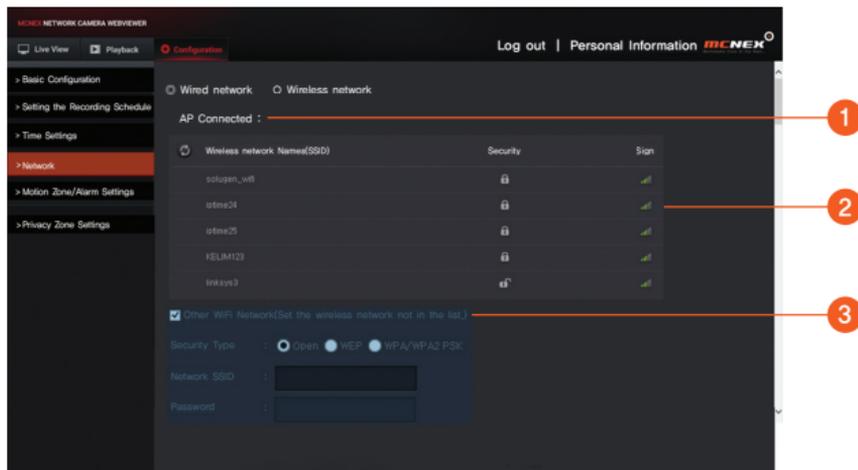
HTTP Port 80

RTSP Streaming

RTSP Port 554

Save

4. Network (Wireless)



| Item | Description |
|----------------|--|
| ① AP Connected | Shows wireless network already set. |
| ② AP List | Displays a list of available Aps (Access Point). When you select an AP you want, enter the password in the pop-up field. |
| ③ Hidden SSID | In this case, enter SSID name and password. |



- For open Aps, no password is required. If you fail to enter the password to a secured AP, you can access to network.

4. Configuration

5. Motion Zone / Alarm Settings

1 Delete All

2 Detect Motion

3 Detect Audio

4 Push Alarm

5 Google Drive

6 E-mail Alarm

| Title | Description |
|-----------------|---|
| ① Delete All | Deletes all the set motion zones. |
| ② Detect Motion | Activates and sets the motion detector. Higher motion sensitivity makes more motions detected. |
| ③ Detect Audio | Activates and sets the audio detector. Higher the motion sensitivity makes more audio detected. |
| ④ Push Alarm | Provides a push alarm service on the Web Viewer or mobile app with the camera registered. |
| ⑤ Google Drive | When an event occurs, an alarm is saved on Google Drive. |
| ⑥ Email Alarm | Sends an alarm event to the set email address. |

4. Configuration

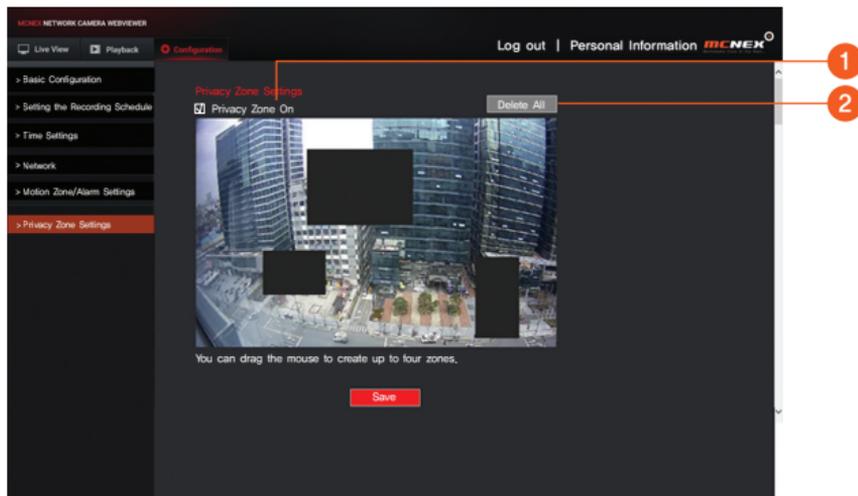
5. Motion Zone / Alarm Settings

1) Configure Google Drive

2) Set the Email Alarm

4. Configuration

6. Privacy Zone Settings



| Title | Description |
|-------------------|--|
| ① Privacy Zone On | Activates the privacy zone settings |
| ② Delete All | Delete everything related with the privacy zone. |

06

Mobile Monitoring

1. Camera Registration

- It can be directly monitored through a mobile app, using a mobile device.
- Download an app (keyword: "MCNEX," Smartiview) from the Play store and install it on your mobile device.

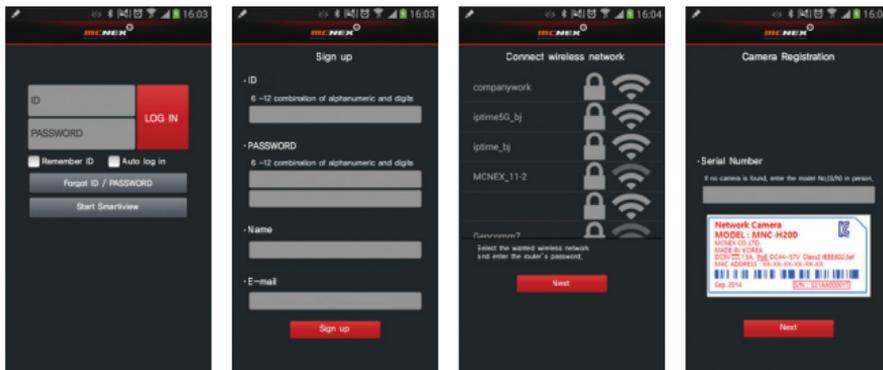
1. Device specification

- Android 4,0/4,1/4,2/4,3/4,4

2. Start

- 1) Install and start the downloaded app.
- 2) Click "Start Smartiview". Then, join the membership and upload the camera.

After signing in on a web viewer or mobile, log in and enter the mobile viewer with your ID and password.

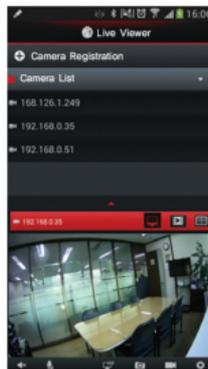
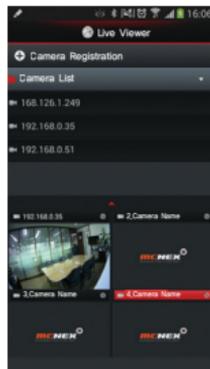
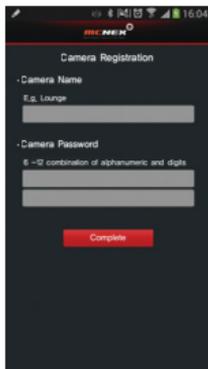


- ① Click "Smartiview".
- ② Enter your ID, password, name and email and click [JOIN THE MEMBERSHIP].
- ③ Select the WiFi to be connected with a camera and make a connection.
- ④ Enter the serial No, on the back of the camera and click NEXT.



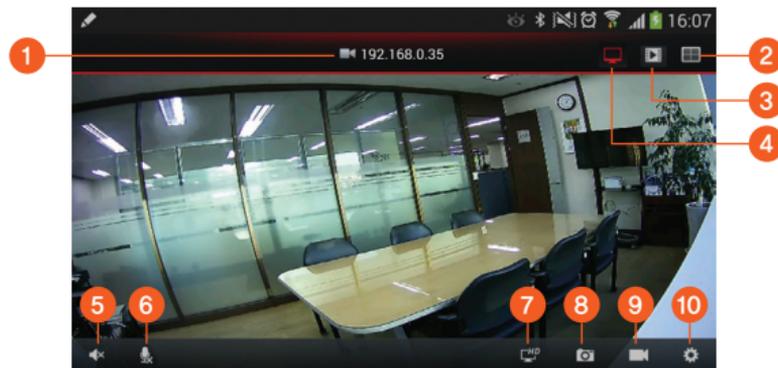
- The camera registration is handled after connecting the power with the network (state LED: Green).

1. Camera Registration



- ⑤ Enter the camera's model number and password and click NEXT,
- ⑥ Select one on the list of cameras and put it into the page below. Then, a video appears.
- ⑦ If a wanted image is double-touched, a single image appears.

2. Live Video



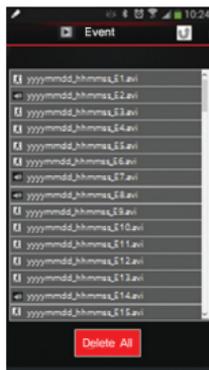
| Title | Description |
|--------------------------------|--|
| ① Camera model No. | The camera's model No. appears. |
| ② Conversion into Split Images | The page is divided into four sections. |
| ③ Regeneration of SD card | The images saved in the SD card are seen. |
| ④ Live video | The camera's live video is played. |
| ⑤ Speaker | Turn on/off the viewer audio. |
| ⑥ Microphone | It turns on/off the viewer's microphone. |
| ⑦ HD | Select the quality of the image. |
| ⑧ Capture | During monitoring, still image videos are stored. |
| ⑨ Photography | During monitoring, images are stored (10 seconds). |
| ⑩ Environment setting | The camera's environmental setting is determined. |
| ⑪ Viewer page | A user can expand the images and move them to the up and down and left to the right. |

3. SD Card Playing

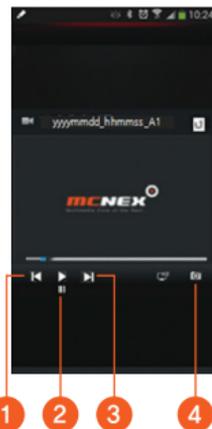
- If PLAY SD CARD is pressed on the live page, a list of the recorded images in the card appears.
- If an item is double-clicked, it is played.
- To delete the recorded image(s), click DELETE ALL or select the image to delete and hold for few seconds.



[List of continuously recorded images]



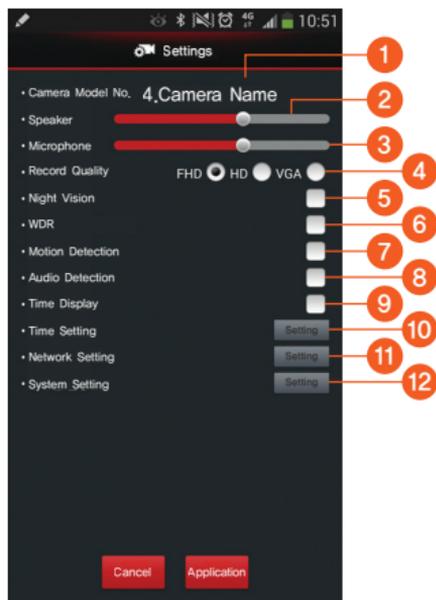
[List of the recorded images by event]



| Title | Description |
|----------------|---|
| ① Skip Frame | Move to the previous frame from the current file. |
| ② Play / Pause | Play / pause the image. |
| ③ Skip Frame | Move to the next frame from the current file. |
| ④ Capture | Save the still image. |

4. Settings

– If SETTINGS is click on the live page, the camera functions can be set.



| Display | Description |
|--------------------|--|
| ① Camera Model No. | Camera Model No, appears, |
| ② Speaker | The speaker volume is adjusted, |
| ③ Microphone | The microphone volume is adjusted, |
| ④ Record Quality | The quality of the images recorded in the SD card is set, |
| ⑤ Night Vision | Select either AUTO or OFF (click), |
| ⑥ WDR | Select either ON (click) or OFF, |
| ⑦ Motion Detection | Select either ON (click) or OFF, |
| ⑧ Audio Detection | Select either ON (click) or OFF, |
| ⑨ Time Display | Time is displayed with overlapped on the image, |
| ⑩ Time Setting | Time is set, |
| ⑪ Network Setting | Select the WiFi to be connected with the camera and connect, |
| ⑫ System Setting | Set firmware update and SD card, |

07

Others

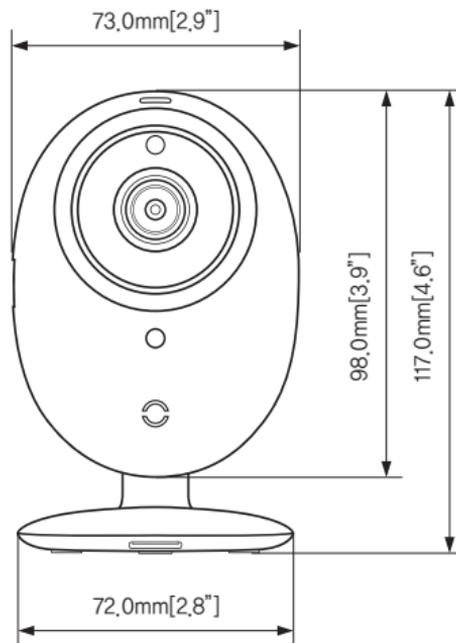
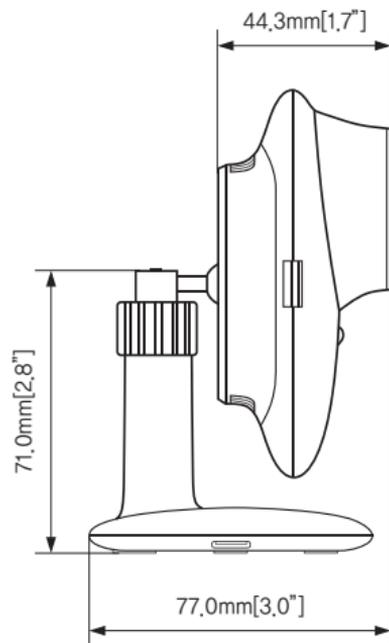
1. Product Specifications

1. Product Specifications

| Item | Specification |
|---------------------------|----------------------------------|
| Resolution | 1920x1080, 1280x720, 640x360 |
| Max Frame | 1080p@30fps |
| Video Compression | H.264, MJPEG |
| Simultaneous Transmission | Multi-Streaming(Up to 5Profiles) |
| Low Light | 0.1Lux(Color), 0lux(B/W) |
| WDR | Support |
| DNR | 3D DNR |
| Day & Night | True D/N Filter |
| Night Vision | IR-LED, 5m |
| Angle of View | 128° / 106° / 58° |
| Digital Zoom | Mobile: 4x, Web Viewer: 10x |
| Flip / Mirror | Support |
| Motion Detection | Support |
| Audio Detection | Support |
| Audio Compression | G.711, G.726 |

| Item | Specification |
|---------------------|--|
| Audio Communication | 2-Way Audio (Built-in Microphones & Speaker) |
| Memory Slot | Micro SD(FAT32) Up to 32GB |
| Save & Playback | Continuous Recording/ Event Recording/Manual Recording Remote Playback |
| Ethernet | RJ-45(10/100BASE-T) |
| Wireless | Wi-Fi 802.11 b/g/n(2,4G) |
| Maximum Users | 5 Users |
| Temperature for Use | -20°C ~ +55°C / 90% RH |
| Power Supply | DC 5V / 1.5A |
| Power Consumption | Max 4.5W |
| Status Indicator | 1LED(Power / Link) |
| Dimensions(WxHxL) | 73 x 98 x 44mm |
| Weight | 123g |
| Color | White / Black |

■ Dimensions



2. Troubleshooting

| Problem | Action |
|--|---|
| I've forgotten my ID and password. | Click "Forgot ID/PASSWORD" on the log in page. |
| I've forgotten my camera password. | Press the RESET button in the back of the camera and hold it for about ten (10) seconds for initiation. Then, reset the system. |
| I can't connect the camera to the wireless connection. | Check if the wireless router and the camera are located too far away. Install them close to each other and try connecting them again. |
| I can't register my camera. | Press the reset button on the back of the product and regenerate the password. |
| I don't hear anything from the video. | Check the audio icon and volume on the viewer page and turn them on. |
| The camera images temporarily lose vision. | Check if the camera is installed where the wireless communication is normally working. |

3. A/S Guidelines

| Location | Address and Contact Number |
|-------------|--|
| Headquarter | Level 11, Hanshin Tower 2, 60-18 Gasan-dong, Geumcheon-gu, Seoul, Korea / TEL: 1688-8811 |

| Free Services | | |
|---|-------------------------------|--|
| Type of Consumer Damage | Compensation | |
| | Within the Warranty Period | After the warranty period |
| A major problem taken place within 10 days after purchase | Product Replacement or Refund | NA |
| Performance or functional problem taken place on a normal operation within 1 month after purchase | Free Repair | NA |
| Up to 3 times with the same problem | Free Repair | Paid Repair |
| More than 4 times with the same problem | Product Replacement or Refund | Paid Repair |
| Different problem for the 5th time | Product Replacement or Refund | Paid Repair |
| If the manufacturer loses the product requested for repair | Product Replacement or Refund | Return of 10% added to the original price of the product |
| Repair parts available but not possible to repair (within the part ownership period). | Product Replacement or Refund | Return of 10% added to the original price of the product |
| Repair parts not available so not possible to repair (within the part ownership period). | Product Replacement or Refund | Return of 10% added to the original price of the product |

※ Failure within 1 year (the warranty period) after purchase can get free services only. When the product is used for a commercial purpose, the warranty period is reduced by half.

| Paid Services | |
|--|---|
| A service requested, but not a failure | When a simple adjustment is made without the manual or disassembly |
| | When removing dust off the inside of the product |
| Product failure due to the consumer's negligence | When the failure occurs due to inappropriate handling or wrong repair |
| | When the failure occurs by a person other than the authorized service man from the company |
| | When the failure occurs by an item or option, not provided by the company |
| | When broken down or damaged by it being dropped to the ground |
| Others | When the product is disassemble intentionally |
| | In the event of failure due to natural disasters (e.g. lightning, fire, salt and water). |
| | When used in a shock voltage which can not be protected, When the life of consumable parts is due |

※ You have to pay if the service requested is not a break-down, So, please read the manual.

4. Product Warranty

Product Warranty

1. This product has been subjected to strict quality management and inspection.
 2. Warranty Period: 1 Year from the date of purchase. (If the purchase date cannot be confirmed, the warranty period is counted from 3 months after the date of manufacture.)
 3. When requesting a major repair within 10 days after purchase: Exchange or free services.
 4. Within the Warranty Period: Free repairs
 5. After the Warranty Period: Paid repairs
- Free services are only offered for errors that occur on a normal operation.
 - Unspecified issues follow the 'consumer dispute resolution criteria of the Fair Trade Commission.'
 - For the following cases, paid repairs are provided even within the warranty period.
 - Natural disasters (fire, lightning, wind and water damage, etc.)
 - When the breakdown has occurred by careless use (fall, immersion, shock, damage or unreasonable behavior).
 - When the broken power and connection devices are repaired at a center other than the authorized service center.
 - When the warranty has been lost, there's no seal by the sales person or some notes have been changed.

| Product | | DIR | | | Model | MNC-H220 |
|--------------------|------------------|------|-------|-----|----------------|----------|
| Manufacture Number | | | | | | |
| Customer | Name | | | | Contact Number | |
| | Address | | | | | |
| Sales Shop | Branch | | | | Contact Number | |
| | Address | | | | | |
| | Date of Purchase | Year | Month | Day | Sales Person | (Sign) |

※ If a problem occurs on this product, please check the user's guide and then contact our A center.
Level 11, Hanshin IT Tower 2, 60-18 Gasan-dong, Guemcheon-gu, Seoul, Korea
TEL : 1688-5889 / www.mcnmaet.com / www.mcnex.com

FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



MNC-H200 USER'S MANUAL

Full HD WI-FI Network Camera